Developing Models to Improve Knowledge about Pollution in the Human Respiratory System

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This poster will highlight several of the human health-related models that the HPC Center has developed for EPA researchers, such as the Lung Model and the Computational Fluid Dynamics (CFD) model of the human Extrathoracic respiratory airway. It will show:

1. Nature of problem (the impact of air pollution entering the body).
2. What the technology is doing to help researchers/the public know how the models are being used. (Allowing for visualizations of air flow through the respiratory system).
3. How the technology works (i.e. the science and math behind the technology).